	Application No.	Applicant(s)
Notice of Allowability	09/911,375	FURUKAWA, HIDEYUKI
	Examiner	Art Unit
	Esaw T. Abraham	2133
The MAILING DATE of this communication ap All claims being allowable, PROSECUTION ON THE MERITS herewith (or previously mailed), a Notice of Allowance (PTOL-8 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1.3	ppears on the cover sheet wit IS (OR REMAINS) CLOSED in 35) or other appropriate commu RIGHTS. This application is s	this application. If not included inication will be mailed in due course. THIS
1. This communication is responsive to <u>05/06/05</u> .		
2.  The allowed claim(s) is/are 2-3 and 7-9 (re-numbered as	s 1-5).	
3. $\boxtimes$ The drawings filed on <u>25 July 2001</u> are accepted by the	Examiner.	
<ul> <li>4. Acknowledgment is made of a claim for foreign priority</li> <li>a) All b) Some* c) None of the:</li> <li>1. Certified copies of the priority documents hat</li> <li>2. Certified copies of the priority documents hat</li> <li>3. Copies of the certified copies of the priority of International Bureau (PCT Rule 17.2(a)).</li> <li>* Certified copies not received:</li> </ul>	ave been received. ave been received in Applicatio	n No
Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		a reply complying with the requirements
5. A SUBSTITUTE OATH OR DECLARATION must be sub INFORMAL PATENT APPLICATION (PTO-152) which g		
6. CORRECTED DRAWINGS ( as "replacement sheets") m  (a) including changes required by the Notice of Draftspo  1) hereto or 2) to Paper No./Mail Date  (b) including changes required by the attached Examine Paper No./Mail Date  Identifying indicia such as the application number (see 37 CFF each sheet. Replacement sheet(s) should be labeled as such in	erson's Patent Drawing Review — er's Amendment / Comment or R 1.84(c)) should be written on th	in the Office action of seed action of the drawings in the front (not the back) of
DEPOSIT OF and/or INFORMATION about the department department regarding REQUIREMEN	posit of BIOLOGICAL MATE	ERIAL must be submitted. Note the
Attachment(s)		
1. Notice of References Cited (PTO-892)		formal Patent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948		ımmary (PTO-413), Mail Date
3. Information Disclosure Statements (PTO-1449 or PTO/SE Paper No./Mail Date		Amendment/Comment
4. Examiner's Comment Regarding Requirement for Deposi	t 8. 🛭 Examiner's	Statement of Reasons for Allowance
of Biological Material	9. 🗌 Other	÷
	SJ	ALBERT DECADY  PERVISORY PATENT EXAMINER  TECHNOLOGY CENTER 2100

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### **DETAILED ACTION**

1. Claims 7-9 have been previously allowed.

# Examiner's statement for reason for allowance

The following is an examiner's statement for allowance:

2. Claims 2 and 3 have been allowed.

## As per claim 2:

The prior art (U.S. PN: 6,526,537) of record, Kishino a storage capable of generating an ECC for data and adding the ECC to the data to thereby form a read/write unit includes a writing circuit for generating an ECC for N of write data received from a host, adding N equally divided ECC code parts to the N write data, respectively, to thereby form N write units, and writing the N write units to N continuous addresses of a semiconductor memory device, respectively. A reading circuit gathers the N equally divided ECC code parts contained in read data units read out of the N continuous addresses of the semiconductor memory device to thereby reconstruct the ECC, and corrects errors of the N read data units with the reconstructed ECC (see col. lines 3-16). However, the prior art taken singly or in combination fail to teach, anticipate, suggest, or render obvious writing an ECC code causing an ECC error in a predetermined area of the initial defective block, wherein said step of writing an ECC code includes the steps of: suspending an ECC generation function internal to said semiconductor memory device, and writing the ECC code from an exterior of said semiconductor memory device. Consequently, claim 2 is allowed over the prior art.

# As per claim 3:

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The prior art (U.S. PN: 6,526,537) of record, Kishino a storage capable of generating an ECC for data and adding the ECC to the data to thereby form a read/write unit includes a writing circuit for generating an ECC for N of write data received from a host, adding N equally divided ECC code parts to the N write data, respectively, to thereby form N write units, and writing the N write units to N continuous addresses of a semiconductor memory device, respectively. A reading circuit gathers the N equally divided ECC code parts contained in read data units read out of the N continuous addresses of the semiconductor memory device to thereby reconstruct the ECC, and corrects errors of the N read data units with the reconstructed ECC (see col. lines 3-16). However, the prior art taken singly or in combination fail to teach, anticipate, suggest, or render obvious writing an ECC code causing an ECC error in a predetermined area of the initial defective block, reading data from the initial defective block after said step of writing an ECC code; performing an ECC check on the read data, and rejecting said semiconductor memory device as being defective if an ECC error is not detected. Consequently, claim 3 is allowed over the prior art.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

#### Conclusion

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3. Any inquiry concerning this communication or earlier communication from the examiner

should be directed to Esaw Abraham whose telephone number is (571) 272-3812. The examiner

can normally be reached on M-F 8-5.

If attempts to reach the examiner by telephone are successful, the examiner's supervisor,

Albert DeCady can be reached on (571) 272-3819. The fax phone numbers for the organization

where this application or proceeding is assigned are (703) 746-7239 for regular communications

and (703) 746-7238 for after final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is (703) 305-3900.

Zsaw Abraham

Esaw Abraham

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SUPERVISORY PATENT EXAMINED

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